

Abstract

The present invention relates to a method for manufacturing components, preferably of a gas turbine, in particular an aircraft engine, by powder injection molding.

In powder injection molding, first a metal powder is combined with a binder to form a homogeneous mass, and then at least one molded article is manufactured from the homogeneous mass by injection molding and the molded body or each molded body is then subjected to a debinding process. Following this, the molded body or each molded body is compacted by sintering to yield at least one component having the desired geometric properties.

According to this invention, several molded articles are joined together by a diffusion process during sintering to manufacture a component. The molded articles to be joined together are preferably brought into surface contact, especially into form-fitting surface contact, at least during sintering on sections that are to be joined together, whereby a pressure is applied to the molded articles to be joined together during sintering (Figure 2).